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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/722,013	11/25/2003	Jiong-Ping Lu	TI 35669	6979		
23494 759	90 04/06/2005	EXAM	EXAMINER			
	RUMENTS INCORPOR	ERDEM,	ERDEM, FAZLI			
P O BOX 65547	'4. M/S 3999					
DALLAS, TX 75265			ART UNIT	PAPER NUMBER		
			2826	2826		
			DATE MAILED: 04/06/2003	DATE MAILED: 04/06/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)				
Office Action Summary		10/722,	013	LU ET AL.				
		Examin	er	Art Unit				
		Fazli Ero		2826	<u></u>			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE N - Extens after S - If the p - If NO - Failure Any re	DRTENED STATUTORY PERIOD FOR I MAILING DATE OF THIS COMMUNICAT sions of time may be available under the provisions of 37 of SIX (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory e to reply within the set or extended period for reply will, by the ply received by the Office later than three months after the dipatent term adjustment. See 37 CFR 1.704(b).	TON.  CFR 1.136(a). In no elion.  s, a reply within the si period will apply and y statute, cause the a	event, however, may a reply be tir atutory minimum of thirty (30) day will expire SIX (6) MONTHS from pplication to become ABANDONE	nely filed /s will be considered time to the mailing date of this of D (35 U.S.C. § 133).				
Status								
1)🛛	Responsive to communication(s) filed on	<u>1/28/05</u> .						
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Dispositio	on of Claims							
5)⊠ ( 6)⊠ ( 7)⊠ (	<ul> <li>4)  Claim(s) 2-21 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) 2-4,7,8 and 19-21 is/are allowed.</li> <li>6)  Claim(s) 5 and 9 is/are rejected.</li> <li>7)  Claim(s) 6 and 10-18 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
Application	on Papers							
9)□ T	he specification is objected to by the Ex	aminer.						
10)□ T	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachment(	s)		•					
1) Notice	of References Cited (PTO-892)		4) Interview Summary					
	of Draftsperson's Patent Drawing Review (PTO-94 ation Disclosure Statement(s) (PTO-1449 or PTO/5		Paper No(s)/Mail Da 5) Notice of Informal P		O-152)			
Paper No(s)/Mail Date 6) Other:								

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#### **DETAILED ACTION**

## Allowable Subject Matter

- 1. Claims 2-4, 7, 8 and 19-21 allowed
- 1. Claims 6 and 10-18 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 5 and 9 rejected under 35 U.S.C. 103(a) as being unpatentable over Mitani (JP 60148163) in view of Janning (4,667,217) further in view of Malhi et al. (5,225,697)

  Mitani discloses a semiconductor memory device where in Fig 2, recrystallized

polysilicon film 4, capacitor electrode 11, electrode 8, and insulating layer 10 are disclosed. Mitani fails to disclose recrystallized polysilicon layer being over the gate electrode and the recrystallized polysilicon/capacitor electrode configuration. However, Janing discloses a two-bit vertically/horizontally integrated memory cell where in Fig. 3, recrystallized layer 38 is over gate electrode 35. Furthermore, Malhi et al. disclose DRAM cell and method where in column 1 and Fig. 2 the required recrystallized polysilicon/capacitor electrode configuration is disclosed.

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It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required gate electrode/recrystallized polysilicon layer and the recrystallized polysilicon and capacitor electrode relationship in Mitani as taught by Janning and Malhi et al. respectively in order to have a semiconductor device with increased reliability.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center Example 1997 (toll-free).

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